## Some Views on CCS Oversight

Sixth Annual Conference on Carbon Capture & Sequestration

Pittsburgh, Pennsylvania May 10<sup>th</sup>, 2007

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## Today's Talk

Public Perception and Acceptability

Jurisdictional Issues

Update on WRI project



#### Some Big-Picture Issues for CCS

- CCS is essential component because we will continue to rely on fossil fuels in the near future
- Technology chain largely exists; but cost reductions and field experience are needed
- Significant voids in policy, regulatory, and institutional frameworks
  - Policy: driver for CCS
  - Regulation: new standards
  - Institutional: greater collaboration



# Some Big-Picture Issues for CCS (cont.)

- Timing debate
- Public acceptance uncertain





#### Public Views on CCS

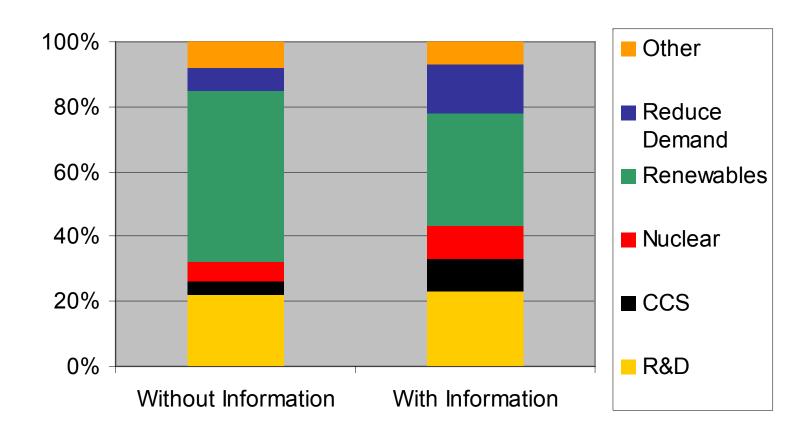
- Local (NUMBY) vs.
   national debate
- Perceived vs. actual risk
- Cost/distribution
- Low awareness of climate change and energy issues/options



Effects of natural CO<sub>2</sub> release in Mammoth Lake, CA



## Public Support for Different Climate Change Mitigation Strategies



Source: Adopted from MIT Carbon Sequestration Initiative, 2006 Survey.

#### Reality Check in California?

- Public uncertainty over CCS recently highlighted in California Bill AB 705
  - Accelerated development of a regulatory framework for CCS
  - Failed to clear committee
  - Local NGOs: premature, dangerous, costly
  - Lake Nyos, Frio pilot
  - Need for better information exchange with the public



#### Emergence of Standards

- EOR
- UIC not designed for sequestration
  - MMV needed
  - Health, safety, environment
- Carbon markets will need confidence
  - New standards for MMV, reporting, verification needed to ensure projects can receive credit for CO<sub>2</sub> reductions
- State-level standards emerging



#### Need for Federal Framework

- Problems with patchwork: potential for high diversity and corner-cutting
- Weak standards could endanger opportunities for all
- Local expertise is important
- UIC uses federal standards and local expertise, but needs updating for CCS





### WRI Project on CCS

- Objective: develop guidelines for CCS that can be used as the basis for regulations or industry best practices
- Strength through diverse stakeholders
  - Power, oil & gas, financial, research, federal, state, NGO, legal
- Initial domestic focus, but international outreach component



#### **Anticipated Outcomes**

- Adaptable guidelines covering entire process chain
  - Capture, transport, site selection, operation, closure, and long-term care
- Upcoming workshops in Fall 2007
  - Integrate components of draft guidelines under development, build consensus
- Begin testing guidelines in field demonstrations in 2008
- Regulations or industry "best practice"



#### Conclusions

Public acceptability is crucial

 Need for federal regulatory framework that acknowledges local expertise

 WRI guidelines will give confidence to public and investors

